

Ixef® 3008

Polyarylamide

Solvay Specialty Polymers

Message:

Ixef 3008 is a 30% carbon fiber reinforced polyaramide compound with very high strength and rigidity, good surface gloss, excellent creep resistance, and lower density than glass fiber reinforced engineering resin. Black: Ixef 3008/9008

General Information	
Filler / Reinforcement	Carbon fiber reinforced material, 30% filler by weight
Features	Super rigidity
	Good dimensional stability
	Excellent appearance
	Low hygroscopicity
	High strength
	Good creep resistance
	High liquidity
	Good chemical resistance
Uses	Lawn and Garden Equipment
	Bushing
	Gear
	Electrical/Electronic Applications
	Electrical appliances
	Power/other tools
	Industrial application
	Machine/mechanical parts
	Home appliance components
	Furniture
	Metal substitution
	Parts under the hood of a car
	Automotive Electronics
	Application in Automobile Field
	Mobile phone
RoHS Compliance	Cam
	Camera application
	Contact manufacturer
Appearance	Black
Forms	Particle
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.030 - 0.10	%	Internal method
Water Absorption			
23°C, 24 hr	0.22	%	ISO 62
Equilibrium, 65% RH	2.0	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	26000	MPa	ISO 527-2
Tensile Stress (Yield)	250	MPa	ISO 527-2
Tensile Strain (Break)	1.3	%	ISO 527-2
Flexural Modulus	23000	MPa	ISO 178
Flexural Stress	360	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.6	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	36	kJ/m ²	ISO 179
Notched Izod Impact	59	J/m	ASTM D256
Unnotched Izod Impact	450	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	230	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+3	ohms · cm	ASTM D257
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating ²	HB		UL 94
Oxygen Index	23	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	0.50 - 1.5	hr	
Rear Temperature	250 - 260	°C	
Front Temperature	260 - 290	°C	
Processing (Melt) Temp	280	°C	
Mold Temperature	120 - 140	°C	
Injection instructions			
热流道系统:250 °C~260 °C (482°F~500 °F) 射出压力:快速干燥:所提供的成型用材料无需干燥处理.但是,如果袋已被打开超过24小时,必须先干燥材料.如果使用的除湿空气干燥机露点为-28 ° C(-18 ° F)或更低,应遵循以下规则:120 ° C(248 °F)温度下 0.5~1.5小时, 100°C C(212°F)温度下1~3个小时,或80 °C(176 °F)温度下1-7个小时. 注塑成型: IXEF30080混合物在大多数螺杆注塑机上均可以很容易地注射成型.建议采用通用螺杆,背压取最低值. 测得的熔融温度应该在280°C (536°F),左右,机筒后端温度应该在250~260°C (482~500°F)左右,前端逐渐增至260 °C~280°C (500~554 °F).如果使用热流道,温度应设置为250~260 °C(482~500 ° F) . 为了最大限度地提高结晶度,模腔表面温度必须保持在120和140°C(248和284°F)之间.成型温度低,容易使产品产生翘曲,外观不良,并极可能产生蠕变.射出压力应确保快速射出.调整保压压力和时间,尽可能提高零件的重量.部件正好完全填充完毕(95-99%)前,将注塑件从射出部位转移到螺杆位置进行保压.			
NOTE			

1.	Su Wei internal procedure, pressure 750 bars (10.9 kpsi), sample 40mm x 20mm x 2-4mm. (1.6 in. x 0.8 in. x 0.08-0.16 in.)
2.	These flammability ratings do not represent the risk of these materials or any other materials in actual fire situations.

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